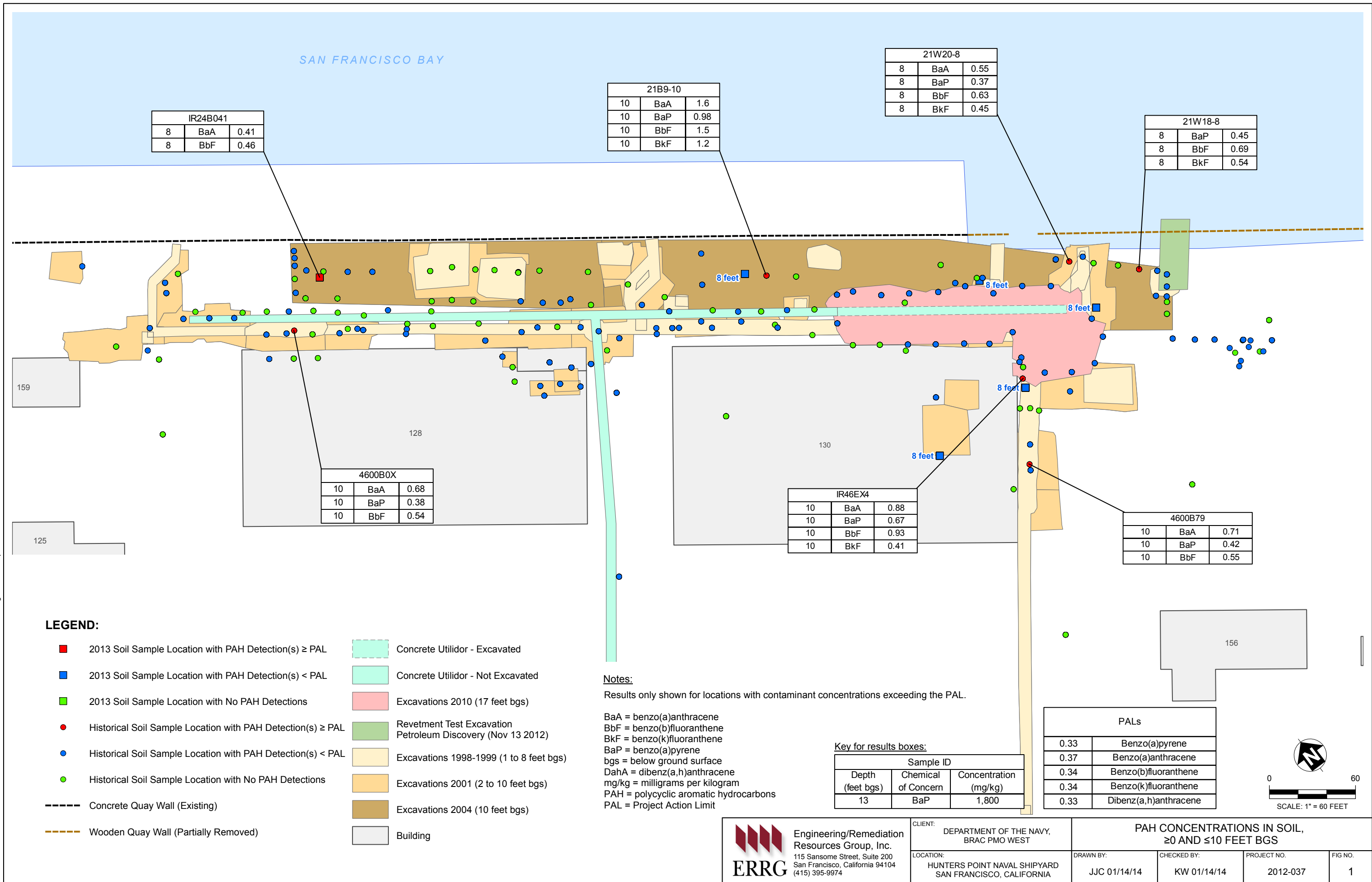
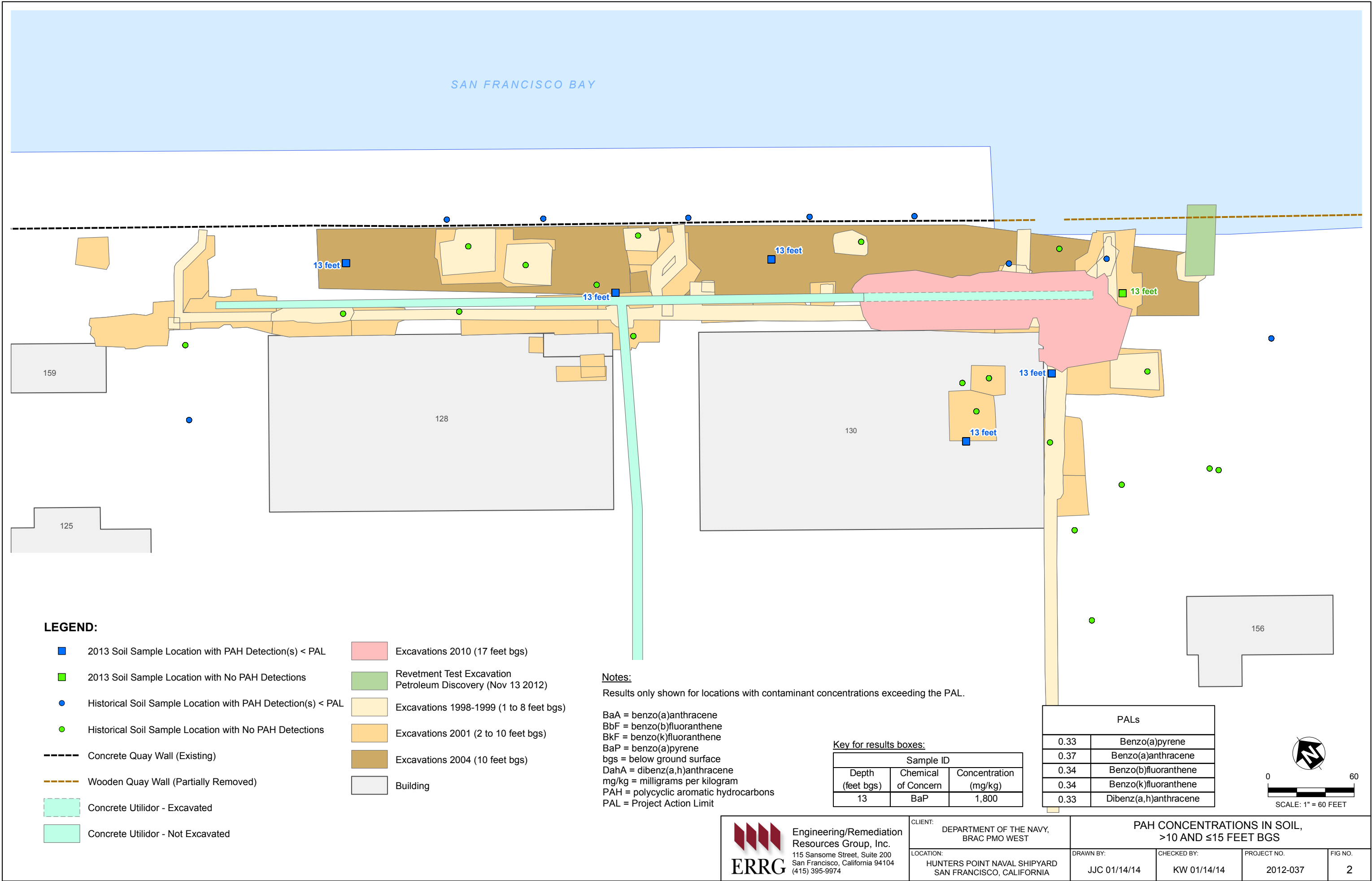


W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 2014\PAH Soil Concentrations 0-10 ft bgs.mxd Last updated: 1/22/2014 at 10:15:12 AM



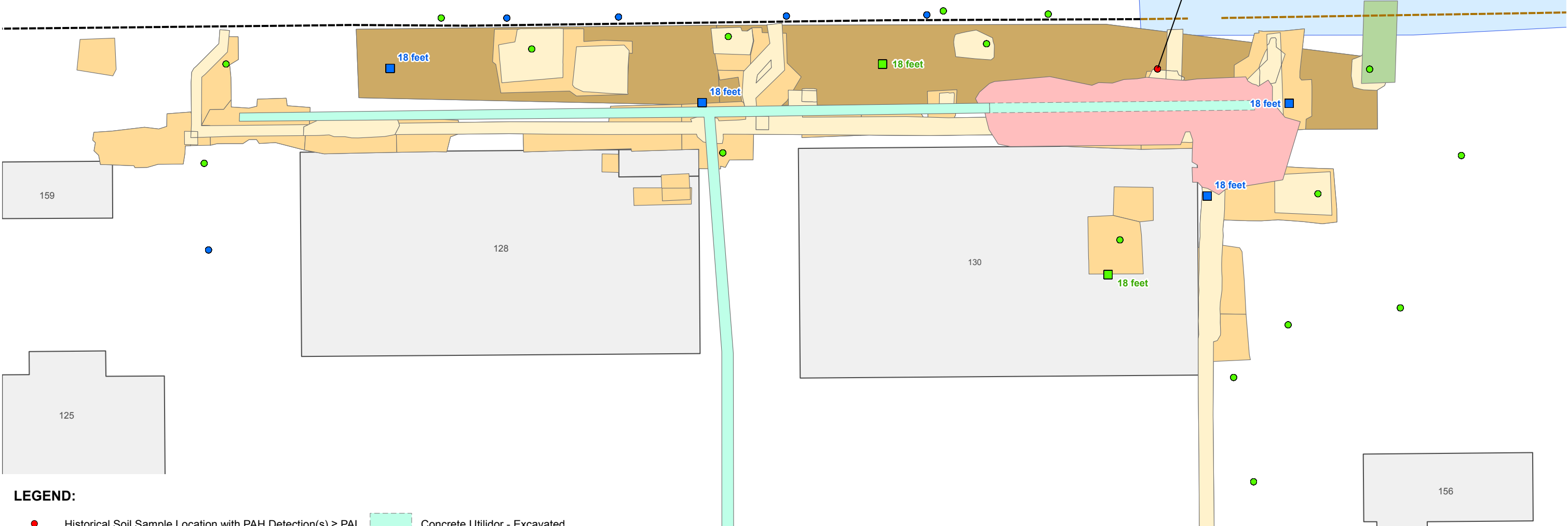
W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 14\PAH Soil Concentrations 10-15 ft bgs.mxd Last updated: 1/22/2014 at 10:18:16 AM



W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 14\PAH Soil Concentrations 15-20 ft bgs.mxd Last updated: 1/22/2014 at 10:24:11 AM

SAN FRANCISCO BAY

IR24MW28A		
15.5	BaA	0.42
15.5	BbF	0.4



LEGEND:

- Historical Soil Sample Location with PAH Detection(s) ≥ PAL

Historical Soil Sample Location with PAH Detection(s) < PAL

Historical Soil Sample Location with No PAH Detections

2013 Soil Sample Location with PAH Detection(s) < PAL

2013 Soil Sample Location with No PAH Detections

Concrete Quay Wall (Existing)

Wooden Quay Wall (Partially Removed)
- Concrete Utilidor - Excavated

Concrete Utilidor - Not Excavated

Excavations 2010 (17 feet bgs)

Revetment Test Excavation Petroleum Discovery (Nov 13 2012)

Excavations 1998-1999 (1 to 8 feet bgs)

Excavations 2001 (2 to 10 feet bgs)

Excavations 2004 (10 feet bgs)

Building

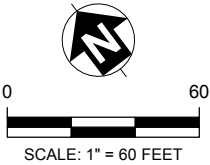
**Notes:**  
Results only shown for locations with contaminant concentrations exceeding the PAL.


BaA = benzo(a)anthracene  
BbF = benzo(b)fluoranthene  
BkF = benzo(k)fluoranthene  
BaP = benzo(a)pyrene  
bgs = below ground surface  
DahA = dibenz(a,h)anthracene  
mg/kg = milligrams per kilogram  
PAH = polycyclic aromatic hydrocarbons  
PAL = Project Action Limit

Key for results boxes:

Sample ID		
Depth (feet bgs)	Chemical of Concern	Concentration (mg/kg)
13	BaP	1,800

PALs	
0.33	Benzo(a)pyrene
0.37	Benzo(a)anthracene
0.34	Benzo(b)fluoranthene
0.34	Benzo(k)fluoranthene
0.33	Dibenz(a,h)anthracene





Engineering/Remediation  
Resources Group, Inc.  
115 Sansome Street, Suite 200  
San Francisco, California 94104  
(415) 395-9974

CLIENT:  
DEPARTMENT OF THE NAVY,  
BRAC PMO WEST

LOCATION:  
HUNTERS POINT NAVAL SHIPYARD  
SAN FRANCISCO, CALIFORNIA

PAH CONCENTRATIONS IN SOIL,  
>15 AND ≤20 FEET BGS

DRAWN BY:  
JJC 01/14/14

CHECKED BY:  
KW 01/14/14

PROJECT NO.  
2012-037

FIG NO.  
3

W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 2014\PAH Soil Concentrations Over 20 ft bgs.mxd Last updated: 1/22/2014 at 10:23:28 AM

SAN FRANCISCO BAY

LEGEND:

- 2013 Soil Sample Location with PAH Detection(s) < PAL

2013 Soil Sample Location with No PAH Detections

Historical Soil Sample Location with PAH Detection(s) < PAL

Historical Soil Sample Location with No PAH Detections

Concrete Quay Wall (Existing)

Wooden Quay Wall (Partially Removed)

Concrete Utilidor - Excavated

Concrete Utilidor - Not Excavated
- Revetment Test Excavation  
Petroleum Discovery (Nov 13 2012)

Excavations 2010 (17 feet bgs)

Excavations 2004 (10 feet bgs)

Excavations 2001 (2 to 10 feet bgs)

Excavations 1998-1999 (1 to 8 feet bgs)

Building

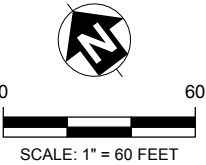
**Notes:**  
Results only shown for locations with contaminant concentrations exceeding the PAL.

BaA = benzo(a)anthracene  
BbF = benzo(b)fluoranthene  
BkF = benzo(k)fluoranthene  
BaP = benzo(a)pyrene  
bgs = below ground surface  
DahA = dibenz(a,h)anthracene  
mg/kg = milligrams per kilogram  
PAH = polycyclic aromatic hydrocarbons  
PAL = Project Action Limit

Key for results boxes:

Sample ID		
Depth (feet bgs)	Chemical of Concern	Concentration (mg/kg)
13	BaP	1,800

PALs	
0.33	Benzo(a)pyrene
0.37	Benzo(a)anthracene
0.34	Benzo(b)fluoranthene
0.34	Benzo(k)fluoranthene
0.33	Dibenz(a,h)anthracene



ERRG

Engineering/Remediation  
Resources Group, Inc.

115 Sansome Street, Suite 200  
San Francisco, California 94104  
(415) 395-9974

CLIENT:  
DEPARTMENT OF THE NAVY,  
BRAC PMO WEST

LOCATION:  
HUNTERS POINT NAVAL SHIPYARD  
SAN FRANCISCO, CALIFORNIA

PAH CONCENTRATIONS IN SOIL,  
>20 FEET BGS

DRAWN BY:  
JJC 01/14/14

CHECKED BY:  
KW 01/14/14

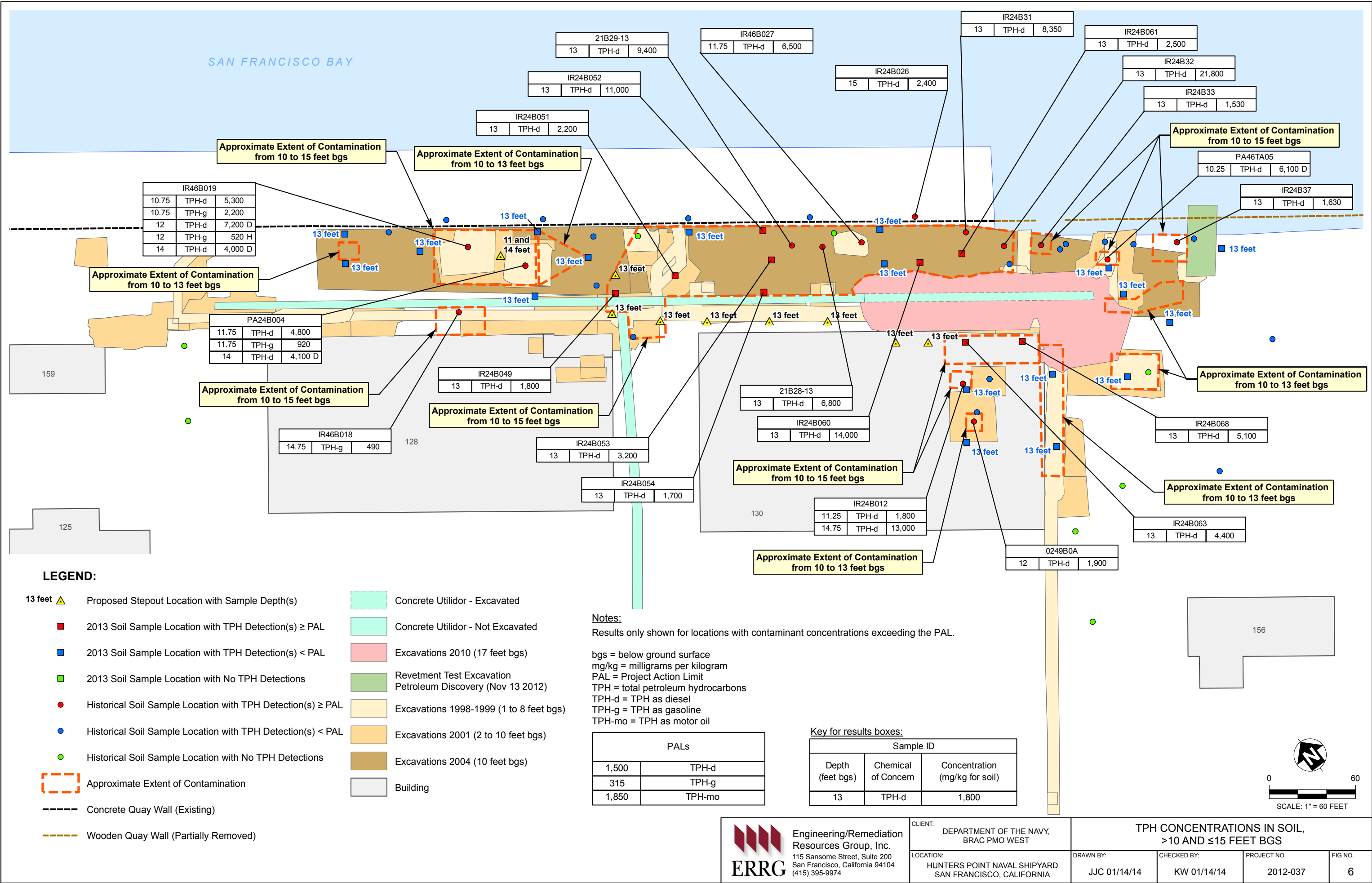
PROJECT NO.  
2012-037


FIG NO.  
4





W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 14\TPH Soil Concentrations 10-15 ft bgs v2.mxd Last updated: 1/22/2014 at 12:11:15 PM





Engineering/Remediation  
Resources Group, Inc.  
115 Sansome Street, Suite 200  
San Francisco, California 94104  
(415) 395-9974

CLIENT:  
DEPARTMENT OF THE NAVY,  
BRAC PMO WEST

LOCATION:  
HUNTERS POINT NAVAL SHIPYARD  
SAN FRANCISCO, CALIFORNIA

DRAWN BY:  
JJC 01/14/14

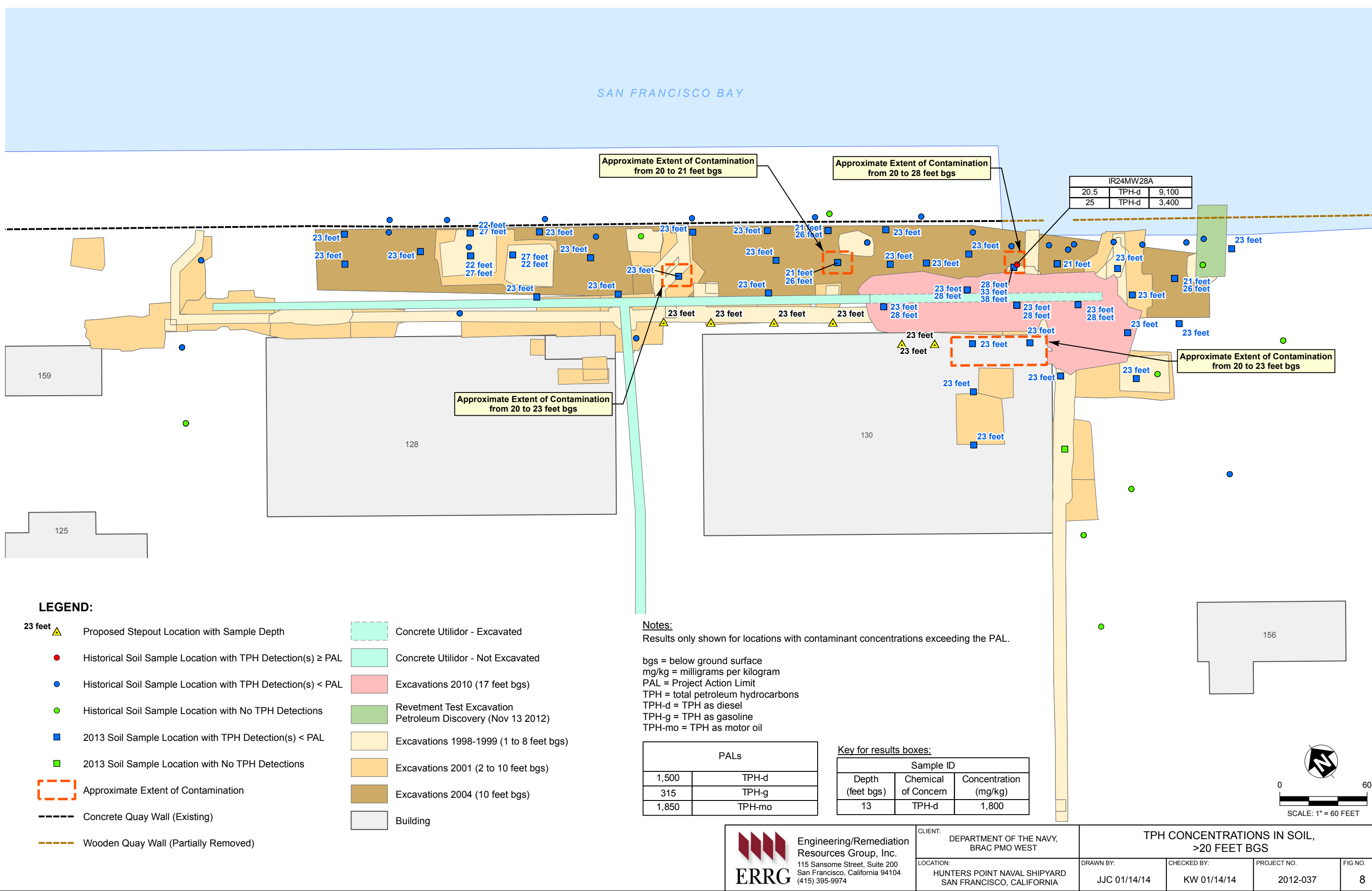
CHECKED BY:  
KW 01/14/14

PROJECT NO.  
2012-037

FIG NO.  
6

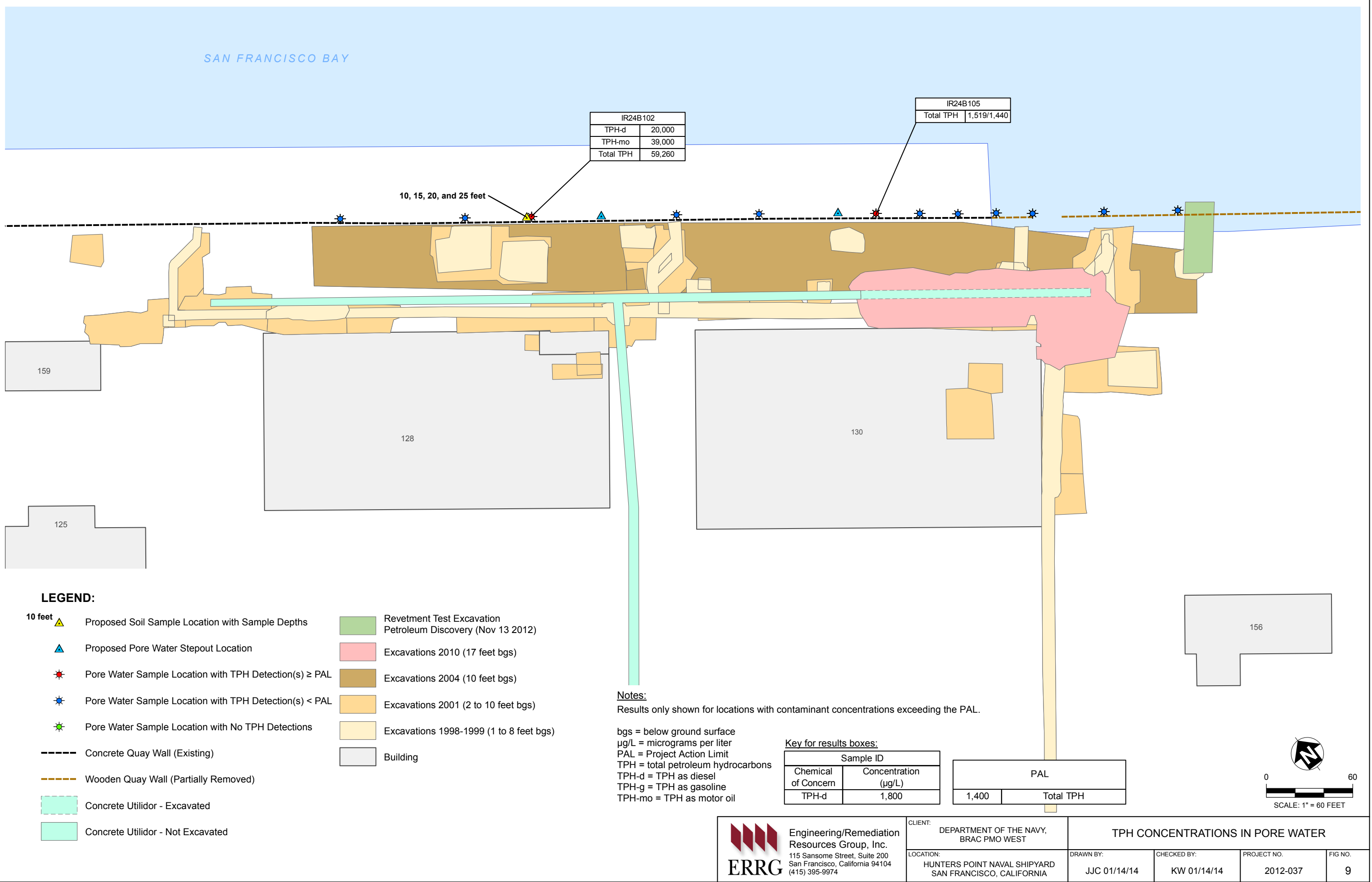


W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 14\TPH Soil Concentrations Over 20 ft bgs v2.mxd Last updated: 1/22/2014 at 11:23:42 AM





W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 4\TPH GW Concentrations.mxd Last updated: 1/22/2014 at 11:26:40 AM



W:\2012\2012-037 HPS Parcel B\GIS\TPH Removal\Jan 20 14\TPH GW Concentrations Silica Gel.mxd Last updated: 1/22/2014 at 5:10:54 PM

